

METHOD AND SYSTEM FOR AGGREGATING DATA DISTRIBUTION MODELS

ABSTRACT

A system and method for creating an aggregated data model from a plurality data distribution models having bins approximating data elements in a plurality of data distributions is disclosed. Each bin of each data distribution model has a polynomial formula for approximating data elements in a respective data distribution. A method for creating the aggregated data model comprises: determining a start point of the aggregated data model having the minimum value and an end point having a maximum value of all of the bins of all of the data distribution models; setting a start point of a first bin of the aggregated data model; setting an end point of a last bin of the aggregated data model; determining a total number of points for the aggregated data model; approximating the data elements described by each data distribution model, each approximated data element comprising one point in the aggregated data model; sorting the points from minimum to maximum; distributing the points into one or more bins in the aggregated data model; and determining a polynomial formula for the points for each bin of the aggregated data model.